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NOTICE OF ALLOWANCE AND FEE(S) DUE

10/05/2006

STMICROELECTRONICS, INC. **MAIL STATION 2346** 1310 ELECTRONICS DRIVE CARROLLTON, TX 75006

EXAMINER					
TRIEU, VA	N THANH				
ART UNIT PAPER NUMBER					

2612 DATE MAILED: 10/05/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,686	12/30/1999	BHUSAN GUPTA	99-B-156-(85	6718

TLE OF INVENTION: COMMAND INTERFACE USING FINGERPRINT SENSOR INPUT SYSTEM

ı	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
Ţ.,	nonprovisional	NO	\$1400	\$0	\$0	\$1400	01/05/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS, THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS</u> STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I! Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correcte maintenance fee notificat	d below or directed oth	erwise in Block 1, by (a	specifying a new co	orresp	ondence address;	and/or	(b) indicating a sepa	rate "FEE ADI)RESS" for
CURRENT CORRESPONDE	7590 10/05.	ock 1 for any change of address)		Fee(s) paper) Transmittal. Thi s. Each additional	s certif l paper	can only be used for icate cannot be used for such as an assignment ling or transmission.	or any other acc	ompanying
STMICROELE MAIL STATION 1310 ELECTRO	CTRONICS, INC 1 2346 NICS DRIVE			I here States addres transn	by certify that this Postal Service w	is Fee(s	of Mailing or Transi 3) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with	the United in envelope g facsimile ow.
CARROLLTON	, TX 75006							(Dep	ositor's name)
.									(Signature) (Date)
APPLICATION NO.	FILING DATE	. [FIRST NAMED INVENT	rop		ATTO	RNEY DOCKET NO.	CONFIRMATI	
09/475,686	12/30/1999		BHUSAN GUPTA				19-B-156-(85	6718	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DI	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE	DUE
nonprovisional	NO	\$1400	\$0		\$0		\$1400	01/05/	2007
EXAMI	NER	ART UNIT	CLASS-SUBCLASS						
TRIEU, VA	N THANH	2612	340-005820		•				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY)					en filed for				
Please check the appropri	ate assignee category or	categories (will not be pr	inted on the patent) :	0 1	ndividual 🗆 Co	rporati	on or other private gro	up entity 🔲 G	iovernment
4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - #		ermitted)	D. Payment of Fee(s): (I A check is enclosed Payment by credit The Director is here overpayment, to D	ed. t card. reby a	. Form PTO-2038 authorized to char	is atta	ched.	ŕ	lit any his form).
a. Applicant claims		s. See 37 CFR 1.27.	☐ b. Applicant is no	longe	er claiming SMAI	L ENT	FITY status. See 37 CF		
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	an the	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or ot	her party in
Authorized Signature					Date			,	
Typed or printed name	;				Registration N	o			_
This collection of informa an application. Confident submitting the completed his form and/or suggestion	ation is required by 37 C iality is governed by 35 application form to the ons for reducing the burners in 22212	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OF (on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of	or ret s estir ndivio fficer,	tain a benefit by the nated to take 12 rd dual case. Any co	ne publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depa	by the USPTO g gathering, pre ne you require t artment of Com	to process) paring, and to complete merce, P.O.

PTOL-85 (Rev. 07/06) Approved for use through 04/30/2007.

Alexandria, Virginia 22313-1450.

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STMICROELEC	TRONICS, INC.		TRIEU, VA	N THANH
MAIL STATION 2			ART UNIT	PAPER NUMBER
1310 ELECTRONICS DRIVE CARROLLTON, TX 75006			2612 DATE MAILED: 10/05/200	6

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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	Application No.	Applicant(s)			
A	09/475,686	GUPTA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Van T. Trieu	2612			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	on 09 June 2006.				
2. The allowed claim(s) is/are <u>1-31</u> .					
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No cuments have been received in this r	national stage application from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give					
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTO-S Amendment / Comment or in the O 84(c)) should be written on the drawing the header according to 37 CFR 1.121(d	ffice action of gs in the front (not the back) of I).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. Interview Summary (Paper No./Mail Date 8), 7. Examiner's Amendm	e			

Application/Control Number: 09/475,686

Art Unit: 2612

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: there are no prior arts teaching or suggesting of a fingerprint apparatus comprising:

a substrate;

a plurality of position sensing devices located on the substrate for detecting the presence of an object;

a plurality of group of the position sensing devices, each group being composed of a plurality of sensing devices and each group being electronically segmented and each group being located at a selected, respective position on the substrate; and an electronic logic circuit coupled to each of the groups <u>for sensing whether a human appendage has been placed adjacent the respective group.</u>

The method of sensing input from a finger of a user comprising:

sensing a first touch location on a substrate at a first time;

sensing a second touch location spaced from the first touch location on the substrate at a second time, after the first time;

comparing an input location sequence of the first and second touch locations to a set of reference location sequences stored in a memory;

outputting a signal indicating a match between the input location sequence and the reference location sequence; and

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performing a pre-programmed function based the signal of the match.

The method comprising:

receiving a fingerprint pattern at a substrate;

sensing the fingerprint pattern with a plurality of sensor cells;

comparing the sensed fingerprint pattern to plurality of stored patterns to determine if there is a match between the received fingerprint pattern and a stored fingerprint

pattern;

receiving a command input to the same substrate after the fingerprint pattern has been

received;

sensing the command input with at least some of the same sensor cells used to sense

the fingerprint pattern; and

sending a signal to carry out the command input only if the previously received

fingerprint pattern is a match with a stored fingerprint pattern.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number

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is (571) 272-2972. The examiner can normally be reached on Mon-Fri from 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mr. Mike Horabik** can be reached on (571) 272-3068.

Van Trieu

Primary Examiner

Date: 9/18/06